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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/553,430
Filing Date	October 18, 2005
First Named Inventor	Christopher Hug
Art Unit	1649
Examiner Name	Aditi Dutt

Attorney Docket Number

SER-100X

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
U1	US-6,358,920 B1	03-19-2002	Blaschuk <i>et al.</i>	All	
U2	US-6,809,175 B1	10-26-2004	Forssmann <i>et al.</i>	All	
U3	US-				
U4	US-				
U5	US-				
U6	US-				
U7	US-				
U8	US-				
U9	US-				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
F1	WO 02/053726 A2	07-11-2002	HybriGenics <i>et al.</i>	All		
F2	WO 99/19477 A1	04-22-1999	Forssmann	All		X
F3	WO 2004/096272 A2	11-11-2004	Cytos Biotechnology	All		
F4	WO 2005/049861 A2	06-02-2005	Epigenomics AG	All		
F5	WO 02/23184 A1	03-21-2002	Eleanor Roosevelt Institute <i>et al.</i>	All		
F6	WO 01/60853 A1	08-23-2001	Pharmacia AB	All		
F7						

Examiner Signature	/Aditi Dutt/	Date Considered	02/06/2009
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	R1	ARITA, Y. et al. "Paradoxical Decrease of an Adipose-Specific Protein, Adiponectin, in Obesity", <i>Biochem Biophys Res Commun</i> , 1999, pp. 79-83, Vol. 257, No. 1.	
	R2	BERG, A.H. et al. "The adipocyte-secreted protein Acrp30 enhances hepatic insulin action", <i>Nature Medicine</i> , August 2001, pp. 947-953, Vol. 7, No. 8.	
	R3	BODYAK, N. et al. "Gene expression profiling of the aging mouse cardiac myocytes", <i>Nucleic Acids Research</i> , 2002, pp. 3788-3794, Vol. 30, No. 17.	
	R4	BOGAN, J.S. et al. "Insulin-Responsive Compartments Containing GLUT4 in 3T3-L1 and CHO Cells: Regulation by Amino Acid Concentrations", <i>Mol Cell Biol</i> , July 2001, pp. 4785-4806, Vol. 21, No. 14.	
	R5	BRONIKOWSKI, A.M. et al. "Lifelong voluntary exercise in the mouse prevents age-related alterations in gene expression in the heart", <i>Physiol Genomics</i> , 2003, pp. 129-138, Vol. 12.	
	R6	CASTLE, C.K. et al. "Lipoprotein Profile Characterization of the KKA ^Y Mouse, a Rodent Model of Type II Diabetes, Before and After Treatment With the Insulin-Sensitizing Agent Pioglitazone", <i>Arterioscler Thromb</i> , 1993, pp. 302-309, Vol. 13, No. 2.	
	R7	CHEBATH, J. et al. "Interleukin-6 receptor-interleukin-6 fusion proteins with enhanced interleukin-6 type pleiotropic activities", <i>Eur Cytokine Netw</i> , December 1997, pp. 359-365, Vol. 8, No. 4.	
	R8	CONACCI-SORRELL, M. et al. "The cadherin-catenin adhesion system in signaling and cancer", <i>J Clin Invest</i> , April 2002, pp. 987-991, Vol. 109, No. 8.	
	R9	DOYLE, D.D. et al. "T-cadherin Is a Major Glycophosphoinositol-anchored Protein Associated with Noncaveolar Detergent-insoluble Domains of the Cardiac Sarcolemma", <i>J Biol Chem</i> , March 20, 1998, pp. 6937-43, Vol. 273, No. 12.	

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	R10	EDWARDS, P.R. and R. Leatherbarrow. "Determination of Association Rate Constants by an Optical Biosensor Using Initial Rate Analysis", <i>Anal Biochem</i> , 1997, pp. 1-6, Vol. 246, No. 1.	
	R11	ELBASHIR, S.M. et al. "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells", <i>Nature</i> , May 24, 2001, pp. 494-498, Vol. 411, No. 6836.	
	R12	ELLINGTON, A.R. and J. Szostak. " <i>In vitro</i> selection of RNA molecules that bind specific ligands", <i>Nature</i> , August 30, 1990, pp. 818-822, Vol. 346, No. 6287.	
	R13	ELLIOT, J.L. and A. Pestronk. "Progression of multifocal motor neuropathy during apparently successful treatment with human immunoglobulin", <i>Neurology</i> , May 1994, pp. 967-968, Vol. 44, No. 5.	
	R14	FEBBRAIO, M.A. and B.K. Pedersen. "Muscle-derived interleukin-6: mechanisms for activation and possible biological roles", <i>FASEB</i> , September 2002, pp. 1335-1347, Vol. 16, No. 11.	
	R15	FEINGLOS, M.N. et al. "Modification of Postprandial Hyperglycemia With Insulin Lispro Improves Glucose Control in Patients With Type 2 Diabetes", <i>Diabetes Care</i> , October 1997, pp. 1539-1542, Vol. 20, No. 10.	
	R16	FIELDS, S. and O.-K. Song. "A novel genetic system to detect protein-protein interactions", <i>Nature</i> , July 20, 1989, pp. 245-246, Vol. 340.	
	R17	FROMONT-RACINE, M. et al. "Toward a functional analysis of the yeast genome through exhaustive two-hybrid screens", <i>Nat Genet</i> , July 16, 1997, pp. 277-282, Vol. 16, No. 3.	
	R18	FRUEBIS, J. et al. "Proteolytic cleavage product of 30-kDa adipocyte complement-related protein increases fatty acid oxidation in muscle and causes weight loss in mice", <i>Proc Natl Acad Sci USA</i> , February 13, 2001, pp. 2005-2010, Vol. 98, No. 4.	
	R19	GRANTHAM, R. "Amino Acid Difference Formula to Help Explain Protein Evolution", <i>Science</i> , 1974, pp. 862-864, Vol. 185, No. 4154.	

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Attorney Docket Number	SER-100X

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	R20	HARA, K. et al. "Genetic Variation in the Gene Encoding Adiponectin Is Associated With an Increased Risk of Type 2 Diabetes in the Japanese Population", <i>Diabetes</i> , February 2002, pp. 536-540, Vol. 51, No. 2.	
	R21	HOLMAN, R.R. et al. "A Randomized Double-Blind Trial of Acarbose in Type 2 Diabetes Shows Improved Glycemic Control Over 3 Years (U.K. Prospective Diabetes Study 44)", <i>Diabetes Care</i> , June 1999, pp. 960-964, Vol. 22, No. 6.	
	R22	HU, E. et al. "AdipoQ Is a Novel Adipose-specific Gene Dysregulated in Obesity", <i>J Biol Chem</i> , May 3, 1996, pp. 10697-10703, Vol. 271, No. 18.	
	R23	HUANG, Z. et al. "T-Cadherin-Mediated Cell Growth Regulation Involves G ₂ Phase Arrest and Requires p21 ^{CIP1/WAF1} Expression", <i>Mol Cell Biol</i> , January 2003, pp. 566-578, Vol. 23, No. 2.	
	R24	IVANOV, D. et al. "Expression of cell adhesion molecule T-cadherin in the human vasculature", <i>Histochem Cell Biol</i> , 2001, pp. 231-242, Vol. 115, No. 3.	
	R25	KNIGHT, D.M. et al. "Construction and Initial Characterization of a Mouse-Human Chimeric Anti-TNF Antibody", <i>Mol Immunol</i> , 1993, pp. 1443-1453, Vol. 30, No. 16.	
	R26	KOLLET, O. et al. "The Soluble Interleukin-6 (IL-6) Receptor/IL-6 Fusion Protein Enhances In Vitro Maintenance and Proliferation of Human CD34 ⁺ CD38 ^{low} Cells Capable of Repopulating Severe Combined Immunodeficiency Mice", <i>Blood</i> , August 1, 1999, pp. 923-931, Vol. 94, No. 3.	
	R27	KONDO, H. et al. "Association of Adiponectin Mutation With Type 2 Diabetes: A Candidate Gene for the Insulin Resistance Syndrome", <i>Diabetes</i> , July 2002, pp. 2325-2328, Vol. 51, No. 7.	
	R28	KOSMIDOU, I. et al. "Production of Interleukin-6 by Skeletal Myotubes: Role of Reactive Oxygen Species", <i>Am J Respir Cell Mol Biol</i> , 2002, pp. 587-593, Vol. 26, No. 5.	
	R29	LEE, C.K. "Gene Expression Profile of Aging and Its Retardation by Caloric Restriction", <i>Science</i> , August 27, 1999, pp. 1390-1393, Vol. 285.	

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	R30	LINDSAY, R.S. et al. "Adiponectin and development of type 2 diabetes in the Pima Indian population", <i>Lancet</i> , July 6, 2002, pp. 57-58, Vol. 360, No. 9326.	
	R31	LIU, X. et al. "Generation of Mammalian Cells Stably Expressing Multiple Genes at Predetermined Levels", <i>Anal Biochem</i> , 2000, pp. 20-28, Vol. 280, No. 1.	
	R32	MAEDA, K. et al. "cDNA Cloning and Expression of Novel Adipose Specific Collagen-like Factor, apm1 (Adipose Most Abundant Gene Transcript 1)", <i>Biochem Biophys Res Commun</i> , 1996, pp. 286-289, Vol. 221, No. 2.	
	R33	MAEDA, N. et al. "Diet-induced insulin resistance in mice lacking adiponectin/ACRP 30", <i>Nat Med</i> , July 2002, pp. 731-737, Vol. 8, No. 7.	
	R34	NAVIAUX, R.K. et al. "The pCL Vector System: Rapid Production of Helper-Free, High-Titer, Recombinant Retroviruses", <i>J Virol</i> , August 1996, pp. 5701-5705, Vol. 70, No. 8.	
	R35	NIERMANN, T. et al. "The Glycosyl Phosphatidylinositol Anchor of Human T-Cadherin Binds Lipoproteins", <i>Biochem Biophys Res Commun</i> , 2000, pp. 1240-1247, Vol. 276, No. 3.	
	R36	OGAWA, Y. et al. "Molecular Cloning of Rat Obese cDNA and Augmented Gene Expression in Genetically Obese Zucker Fatty (fa/fa) Rats", <i>J Clin Invest</i> , September 1995, pp. 1647-1652, Vol. 96, No. 3.	
	R37	OKAMOTO, Y. et al. "An Adipocyte-Derived Plasma Protein, Adiponectin, Adheres to Injured Vascular Walls", <i>Horm Metab Res</i> , 2000, pp. 47-50, Vol. 32, No. 2.	
	R38	PANIDIS, D. et al. "Serum adiponectin levels in women with polycystic ovary syndrome", <i>Hum Reprod</i> , 2003, pp. 1790-1796, Vol. 18, No. 9.	
	R39	PELLEYMOUNTER, M.A. et al. "Effects of the obese Gene Product on Body Weight Regulation in ob/ob Mice", <i>Science</i> , July 28, 1995, pp. 540-543, Vol. 269, No. 5223.	

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	R40	PETRIDOU, E. et al. "Plasma Adiponectin Concentrations in Relation to Endometrial Cancer: A Case-Control Study in Greece", <i>J Clin Endocrinol Metab</i> , 2003, pp. 993-997, Vol. 88, No. 3.	
	R41	PIERCY, V. et al. "Potential Benefit of Inhibitors of Advanced Glycation End Products in the Progression of Type II Diabetes: A Study With Aminoguanidine in C57/BLKsJ Diabetic Mice", <i>Metabolism</i> , December 1998, pp. 1477-1480, Vol. 47, No. 12.	
	R42	PIERCY, V. et al. "Acceleration of the Development of Diabetes in Obese Diabetic (db/db) Mice by Nicotinamide: A Comparison With Its Antidiabetic Effects in Non-Obese Diabetic Mice", <i>Metabolism</i> , December 2000, pp. 1548-1554, Vol. 49, No. 12.	
	R43	RAMSAY, J.E. et al. "Paradoxical Elevation in Adiponectin Concentrations in Women with Preeclampsia" <i>Hypertension</i> , 2003, pp. 891-894, Vol. 42, No. 5.	
	R44	RASMUSSEN, R.K. et al. "Two-dimensional electrophoretic analysis of human breast carcinoma proteins: Mapping of proteins that bind to the SH3 domain of mixed lineage kinase MLK2", <i>Electrophoresis</i> , 1997, pp. 588-598, Vol. 18, Nos. 3-4.	
	R45	ROTH, J.L. et al. "The Metabolic Syndrome: Where Are We and Where Do We Go?", <i>Nut Rev</i> , October 2002, pp. 335-337, Vol. 60, No. 11.	
	R46	SCHERER, P.E. et al. "A Novel Serum Protein Similar to C1q, Produced Exclusively in Adipocytes", <i>J Biol Chem</i> , November 10, 1995, pp. 26746-26749, Vol. 270, No. 45.	
	R47	SCHINDLER, U. and V. Baichwal. "Three NF- κ B Binding Sites in the Human E-Selectin Gene Required for Maximal Tumor Necrosis Factor Alpha-Induced Expression", <i>Mol Cell Biol</i> , September 1994, pp. 5820-5831, Vol. 14, No. 9.	
	R48	TAKEUCHI, T. et al. "Expression of T-Cadherin (CDH13, H-Cadherin) in Human Brain and Its Characteristics as a Negative Growth Regulator of Epidermal Growth Factor in Neuroblastoma Cells", <i>J Neurochem</i> , 2000, pp. 1489-1497, Vol. 74, No. 4.	

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	R49	TANIHARA, H. et al. "Cloning of Five Human Cadherins Clarifies Characteristic Features of Cadherin Extracellular Domain and Provides Further Evidence for Two Structurally Different Types of Cadherin", <i>Cell Adhes Commun</i> , 1994, pp. 15-26, Vol. 2, No. 1.	
	R50	TKACHUK, V.A. et al. "Identification of an atypical lipoprotein-binding protein from human aortic smooth muscle as T-cadherin", <i>FEBS Lett</i> , 1998, pp. 208-212, Vol. 421, No. 3.	
	R51	TSAO, T.-S. et al. "Oligomerization State-dependent Activation of NF-κB Signaling Pathway by Adipocyte Complement-related Protein of 30 kDa (Acp30)", <i>J Biol Chem</i> , August 16, 2002, pp. 29359-29362, Vol. 277, No. 33.	
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Complete if Known

Application Number	10/553,430
Filing Date	October 18, 2005
First Named Inventor	Christopher Hug
Group Art Unit	1649
Examiner Name	Aditi Dutt

Attorney Docket Number SER-100X

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R58	YAMAUCHI, T. et al. "The fat-derived hormone adiponectin reverses insulin resistance associated with both lipodystrophy and obesity", <i>Nat Med</i> , August 2001, pp. 941-946, Vol. 7, No. 8.	
	R60	YOKOTA, T. et al. "Adiponectin, a new member of the family of soluble defense collagens, negatively regulates the growth of myelomonocytic progenitors and the functions of macrophages", <i>Blood</i> , September 1, 2000, pp. 1723-1732, Vol. 96, No. 5.	
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	R65		
	R66		
	R67		
	R68		

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